

2009 Global Organization for Earth System Science Portal (GO-ESSP) Workshop Agenda

Date: October 6th – 8th, 2009

Location: ZMAW Building, Bundesstraße 53, 20146 Hamburg.

<http://www.mpimet.mpg.de/en/institut/besucherinformationen.html>

Room: No. 22/23, ground floor

Size: 70 people, Room Orientation: Theatre Style

Audio/Video: Digital Projector and Microphone

Arrival Time: *Participants should plan to arrive between 8:30 – 9:00 AM.*

Note: For administrative reasons there will be no breakfast during the event, so please have breakfast before attending the workshop.

Hotels: Hotels in the vicinity of the venue.

<http://www.mpimet.mpg.de/en/institut/besucherinformationen/hotelliste.html>

Transport: Transportation: see details here

<http://www.mpimet.mpg.de/en/institut/besucherinformationen.html>

Hamburg buses and undergrounds subways are operated by Hamburger Verkehrsverbund (HVV)

<http://www.hvv.de/en/>

General Visitor Information:

- <http://english.hamburg.de/tourist-information/>
- <http://english.hamburg.de/attractions-hamburg/>
- <http://en.wikipedia.org/wiki/Hamburg>
- <http://wikitravel.org/en/Hamburg>
- Downtown map: <http://english.hamburg.de/stadtplansuche/>



The way from Underground "Schlump" to the z-shaped ZMAW building.

(The DKRZ building is the T-shaped one at the middle top).

Teleconferencing: GO-ESSP is primarily an in-person event. For those that cannot attend we have, however, established some level of videoconferencing capabilities. The virtual conference room will be for the video part at:

<http://webconf.vc.dfn.de/go-essp>

This connection probably also will have an audio channel. However, as this often has poor sound quality, we will set up a phone conference in parallel:

To establish a sound connection by phone dial one of the DFN numbers: +49 30 254 1080

You then will be asked to enter the Conference ID followed by a hash ("#"), which is: 9792 0390 # . You then enter the virtual conference room.

Purpose: The [Global Organization for Earth System Science Portals \(GO-ESSP\)](#) workshop, organized by an consortium spanning continents, countries, and intergovernmental agencies, will facilitate understanding, organization, and implementation of a global infrastructure for data sharing. This GO-ESSP consortium envisions an environment that allows users open access to petabytes of model-generated, satellite, and in-situ data including physical, biogeochemical and ecosystem content. This infrastructure will bring to life a synchronized federation that supports fusion of models and observations, GIS integration, model inter-comparison capabilities, user support and dataset life cycle maintenance, as well as a full suite of server-side analysis tools and integration with desktop productivity applications.

As a step towards fulfilling this global infrastructure—anticipating the requirements of the Coupled Model Intercomparison Project, Phase 5 (CMIP5) multi-model experiment—participants of GO-ESSP are implementing a distributed testbed. CMIP5 is expected to provide a foundation for the next assessment report by the Intergovernmental Panel on Climate Change (IPCC). Although driven by the immediate needs of CMIP5, the workshop focus will encompass broader data management issues that are faced by large climate and weather research activities. Participants of the workshop will share ideas and software promoting integrating activities that facilitate the community's goal to build a science gateway to climate data and resources.

This workshop will focused on the following themes:

- Metadata conventions and their evolution, including the Climate and

- Forecast (CF) conventions and the Gridspec
- Metadata collection and generation strategies
- Federation of services
- Remote processing and interaction
- Workspaces, workflows and automation in semantically enabled environments
- New initiatives and partner projects
- New strategies and technology developments

Agenda

The focus of this workshop will be to bring together technologists and scientists interested in leveraging emerging technologies and solutions to support, enable and enhance climate research. Of particular interest are individuals who are building infrastructures and tools to support analysis and sharing of both climate model output and observations.

Day 1: CF Conventions and Grids

Session One: General CF Issues

08:30 – 09:00	Arrival Time	Michael Lautenschlager (Host)	30 min
09:00 – 09:05	Welcome and Logistics	Michael Lautenschlager (MPIM)	5 min
09:05 – 09:20	CF Governance and Overview	Bryan Lawrence (BADC), Karl Taylor (PCMDI)	15min
09:25 – 09:40	CF Common Concept	Alison Pamment (BADC)	15 min
09:45 – 10:00	Vocabulary Services for CF Standard Names	Roy Lowry (BODC)	15 min
10:05 – 10:20	CF Conventions for Observational Data	John Caron (Unidata)	15 min
10:25 – 10:40	Developments in the libCF Library from Unidata	Ed Hartnett (Unidata)	15 min
10:45 – 11:00	BREAK		15 min
11:00 – 11:15	NetCDF RAF	Janine Goldstein (NCAR)	15 min
11:20 – 11:35	Report from OceanObs09: Opportunities and challenges for the emerging framework of netCDF-CF-THREDDS-DAP	Steve Hankin	15 min
11:40 – 11:55	ADAGUC: CF netCDF and OGC services	John van der Vegte	15 min
12:00– 12:15	A Draft Standard for the CF Conventions	Russ Rew (Unidata)	15 min
12:20 – 13:30	LUNCH		70 min
13:30 – 13:45	Grids Theme Overview	V. Balaji (GFDL)	15 min
13:45 – 14:00	Fast Regridding of Complex Grids for Visualization	Jon Blower	15 min
14:00 – 14:15	Global Cloud-Resolving Model (GCRM) Grid	Karen Schuchardt (PNNL) Todd Elsethagen	15 min
14:15 – 14:30	BREAK		15 min
14:30 – 15:30	General CF Discussion		60 min

Session Two: Demonstrations

15:30 – 17:30		2 hr
---------------	--	------

15:50 – 16:05		
17:30 – 17:35	Closing Comments and Adjourn Day 1	5 min

Day 2: CMIP5

Session One: Contributing Data and Metadata for CMIP5

08:45 – 09:15	Arrival Time	Michael Lautenschlager (Host)	30 min
09:15 – 09:35	CMIP5 Overview	Karl Taylor, Dean N. Williams (PCMDI)	20 min
09:35 – 09:55	The Current Status of CF Standard Names for CMIP5	Alison Pamment (BADC)	20 min
09:55 – 10:15	Climate model Output Rewriter (CMOR) 2	Karl Taylor, Dean N. Williams (PCMDI)	20 min
10:15 – 10:35	Model and Simulation Metadata Questionnaire	Bryan Lawrence (BADC)	20 min
10:35 – 11:00	BREAK		25 min

Session Two: The ESG Federation

11:00 – 11:30	An Introduction to the ESG-CET CMIP5 Federation	Luca Cinquini (NCAR)	30 min
11:30 – 11:50	ESG Data Node Configuration	Bob Drach, Dean N. Williams (PCMDI)	20 min
11:50 – 12:10	Implementation of CMIP5 Model Metadata in ESG	Cecelia DeLuca and Sylvia Murphy (NOAA)	20 min
12:10 – 12:30	Adding Secure Services to ESG	Phil Kershaw (BADC)	20 min
12:30 – 13:50	LUNCH		80 min

Session Three: Exploiting CMIP5 and ESG

13:50 – 14:10	Remote Processing Issues	Steve Hankin (PMEL)	20 min
14:10 – 14:30	Model Inter-comparison Using the LAS Interactive Earth Science Data Visualization Gallery (vizGal)	Roland Schweitzer (PMEL)	20 min
14:30 – 14:50	The Australian Climate Supernode	Ben Evans, Pauline Mak (ANU)	20 min
14:50 – 15:10	Parallel Analysis Tools for use in IS-ENES and Exploiting CMIP5	Barcelona Group	20 min
15:10 – 15:25	BREAK		15 min
15:25 – 15:45	The Climate Data Exchange (CDX)	Amy Braverman (NASA-JPL)	20 min

15:45 – 16:05	The CMIP5 archive in AR5	Michael Lautenschlager (MPIM)	20 min
16:05 – 16:25	The ENSEMBLES downscaling portal: A user-friendly GRID-based tool for GCM postprocessing and downscaling)	Jose Gutiérrez Santander Meteorology Group at IFCA (CSIC-Universidad de Cantabria)	20 min
16:25 – 17:25	CMIP5 & ESG Discussion		60 min
17:25 – 17:30	Closing Comments and Adjourn Day 2		5 min
18:30 – 21:00	Workshop Dinner (TBD)		2-3 hrs

Day 3: GO-ESSP relevant technologies and projects

Session One: Partner Projects

08:45 – 09:15	Arrival Time	Michael Lautenschlager (Host)	30 min
09:15 – 09:35	METAFOR	Gerard Devine (University of Reading)	20 min
09:35 – 09:55	Curator and Curator2: Commodity Governance in Scientific Portals	Cecelia, Balaji, Sylvia, Paul Edwards, Mark Ackerman (ESC)	20 min
09:55 – 10:15	The UK Climate Projections User Interface	Stephen Pascoe (BADC)	20 min
10:15 – 10:35	A Grid Enabled Scientific Gateway for Climate Change	Giovanni Aloisio, Sandro Fiore (CMCC)	20 min
10:35 – 10:55	IS-ENES, C3Grid, and DKRZ Data Node	Stephan Kindermann (DKRZ)	20 min
10:55 – 11:20	BREAK		25 min

Session Two: Partner Projects, continued

11:20 – 11:40	NOAA Environmental Software Infrastructure and Interoperability Program (NESII)	Cecelia DeLuca and V. Balaji (ESC)	20 min
11:40 – 12:00	The National Operational Model Archive and Distribution System (NOMADS)	Glenn Rutledge (NOAA/NCDC) Glenn Rutledge (NOAA/NCDC)	20 min
12:00 – 12:20	IPCC AR5: new demands, challenges and responds.	V.Balaji, Y. Malysheva, S.Nikonov, C.Rehbein (GFDL)	20 min
12:20 – 12:40	Distributing climate model data to the world - a 10-year retrospective	Gary Strand	20 min
12:40	MEETING ADJOURN		
	Steering Committee Working Lunch (2 Hours) 15.00: Steering Committee Adjourn		